Journal of Neuroscience Methods, 19 (1987) 349–350
Elsevier

Author Index Volume 19

Aberdeen, J.A., see Badoer, E., 11
Agnew, W.F., see Tivol, W.F., 323
Aitken, A.R., The preparation and use of embryonic brain wholemounts, 297
Alvarez, R.B., see Tivol, W.F. 323
Anson, M., see Chung, S.H., 125

Badoer, E., Head, G.A., Aberdeen, J.A. and Korner, P.I., Localization of the main noradrenergic neuron groups in the pons and medulla of the rabbit and the importance of cathodal lesions for prolonged survival, 11
Bandyopadhyay, S., see Clark, A.W., 285
Bauer, W., see Kammerer, R., 89
Beach, T.G., Tago, H., Nagai, T., Kimura, H., McGeer, P.L. and McGeer, E.G., Perfusion-fixation of the human brain for immunohistochemistry: comparison with immersion-fixation, 183
Beal, M.F., see Ellison, D.W., 305
Burgess, R.C., see Clark, F.J., 193
Böhmer, G., see Schmid, K., 147
Böhmer, G., see Schmid, K., 235

Carnevale, N.T. and Lebeda, F.J., Numerical analysis of electrotonus in multicompartmental neuron models, 69
Cassella, J.V. and Davis, M., A technique to restrain awake rats for recording single-unit activity with glass micropipettes and conventional microdrives, 105
Chalmers, J.P., see Kappor, V., 173
Chung, S.H., Jones, L.C., Hammond, B.J., King, M.C., Evans, R.J., Knott, C., Keating, M.J. and Anson, M., Signal processing technique to extract neuronal activity from noise, 125
Clark, A.W., Bandyopadhyay, S. and DasGupta, B.R., The plantar nerves-lumbrical muscles: a useful nerve-muscle preparation for assaying the effects of botulinum neurotoxin, 285
Clark, F.J. and Burgess, R.C., Systems for producing precise movements of a joint over a wide range of speeds and displacements for tests of a static-position sense, 193
Crockett, R.S. and Quinton, E.E., Distribution of incorporated [^{3}H]uridine in mouse brain as a function of route of administration, 339
Curry, K., see Magnuson, D.S.K., 141

DasGupta, B.R., see Clark, A.W., 285
Davis, M., see Cassella, J.V., 105
Dieringer, N., see Kasper, H.J., 115

Ellison, D.W., Beal, M.F. and Martin, J.B., Amino acid neurotransmitters in postmortem human brain analyzed by high performance liquid chromatography with electrochemical detection, 305
Enoka, R.M., see Gordon, D.A., 267
Evans, R.J., see Chung, S.H., 125

Fakhouri, A.J., see Kerns, J.M., 217
Fakhouri, A.J., see Kerns, J.M., 259
Felix, D., see Harding, J.W., 209
Forsythe, I.D. and Walmsley, B., Intracellular recording of identified dorsal spinocerbellar tract neurones from guinea pig spinal cord in vitro, 225
Freeman, J.A., see Kerns, J.M., 217

Gordon, D.A., Hamm, T.M., Enoka, R.M., Reinking, R.M., Windhorst, U. and Stuart, D.G., Measurement of axonal conduction velocity in single mammalian motor axons, 267
Graff, C., Recording electrophysiological signals from small moving animals: electrode fixation and low torque swivel for recording a weakly electric fish in a group, 95

Hall, W.M., see Mulloney, B., 47
Hamm, T.M., see Gordon, D.A., 267
Hammond, B.J., see Chung, S.H., 125
Harding, J.W. and Felix, D., Quantification of angiotensin ionthophoresis, 209
Head, G.A., see Badoer, E., 11
Hess, B.J.M., see Kasper, H.J., 115
Hoffer, J.A., see Milner, T.E., 37
Honegger, H.W., see Kammerer, R., 89

Johnson, R., see Magnuson, D.S.K., 141
Jones, L.C., see Chung, S.H., 125

Kammerer, R., Bauer, W. and Honegger, H.W., On-line analysis of rapid motion with a microcomputer, 89
Kappor, V. and Chalmers, J.P., A simple, sensitive method for the determination of ex-

0165-0270/86/$03.50 © 1986 Elsevier Science Publishers B.V. (Biomedical Division)

tracellular catecholamines in the rat hypothalamus using in vivo dialysis, 173
Kasper, H.J., Hess, B.J.M. and Dieringer, N., A precise and inexpensive magnetic field search coil system for measuring eye and head movements in small laboratory animals, 115
Keating, M.J., see Chung, S.H., 125
Kerns, J.M., Fakhouri, A.J. and Pavkovic, I.M., A twitch-tension method to assess motor nerve function in rat, 259
Kerns, J.M., Pavkovic, I.M., Fakhouri, A.J., Wickersham, K.L. and Freeman, J.A., An experimental implant for applying a DC electrical field to peripheral nerve, 217
Kimura, H., see Beach, T.G., 183
King, M.C., see Chung, S.H., 125
Knott, C., see Chung, S.H., 125
Korner, P.I., see Badoer, E., 11

Laviolette, J.R., see Raynauld, J.-P., 243
Laviolette, J.R., see Raynauld, J.-P., 249
Lebeda, F.J., see Carnevale, N.T., 69

Magnuson, D.S.K., Johnson, R., Peet, M.J., Curry, K. and McLennan, H., A novel spinal cord slice preparation from the rat, 141
Martin, J.B., see Ellison, D.W., 305
McGeer, E.G., see Beach, T.G., 183
McGeer, P.L., see Beach, T.G., 183
McLennan, H., see Magnuson, D.S.K., 141
Milner, T.E. and Hoffer, J.A., Long-term peripheral nerve and muscle recordings form normal and dystrophic mice, 37
Mulloney, B. and Hall, W.M., The PD programs: a method for the quantitative description of motor patterns, 47
Murdock, M., see Scholfield, C.N., 203

Nagai, T., see Beach, T.G., 183

Pavkovic, I.M., see Kerns, J.M., 217
Pavkovic, I.M., see Kerns, J.M., 259
Peet, M.J., see Magnuson, D.S.K., 141

Quinton, E.E., see Crockett, R.S., 339

Raynauld, J.-P. and Laviolette, J.R., Micropipette holders: vented types are preferable to closed types, 243
Raynauld, J.-P. and Laviolette, J.R., The silver-silver chloride electrode: a possible generator of offset voltages and currents, 249
Reinking, R.M., see Gordon, D.A., 267

Saint-Cyr, J.A., see Stechison, M.T., 29
Schmid, K. and Böhmer, G., A device for spike train sampling with built-in memory, 147
Schmid, K. and Böhmer, G., A stepper motor-driven microelectrode positioner, 235
Scholfield, C.N. and Murdock, M., Pulse-modulated light source for psychometric and vision experiments, 203
Scholfield, C.N., A miniaturised roller pump, 157
Silverman, M.S. and Tootell, R.B.H., Modified technique for cytochrome oxidase histochemistry: increased staining intensity and compatibility with 2-deoxyglucose autoradiography, 1
Soto, E. and Vega, R., A Turbo Pascal program for on line spike data acquisition and analysis using a standard serial port, 61
Stechison, M.T. and Saint-Cyr, J.A., A transcervical surgical approach to the ventral medulla of the cat, 29
Stuart, D.G., see Gordon, D.A., 267

Tago, H., see Beach, T.G., 183
Tivol, W.F., Agnew, W.F., Alvarez, R.B. and Yuen, T.G.H., Characterization of electrode dissolution products on the high-voltage electron microscope, 323
Tootell, R.B.H., see Silverman, M.S., 1

Vega, R., see Soto, E., 61

Walmsley, B., see Forsythe, I.D., 225
White, W.F., A washing apparatus for microcentrifugation assays, 317
Wickersham, K.L., see Kerns, J.M., 217
Wilson, S.P., Purification of adrenal chromaffin cells on Renografin gradients, 163
Windhorst, U., see Gordon, D.A., 267

Yuen, T.G.H., see Tivol, W.F., 323

Journal of Neuroscience Methods, 19 (1987) 351–354
Elsevier

Key Word Index Volume 19

Adrenal medulla; Chromaffin cells; Norepinephrine; Epinephrine; Renografin; Percoll; Density gradient centrifugation, 163

Amino acid; Neurotransmitter; Human brain; Liquid chromatography, 305

Angiotensin II; Angiotensin III; Iontophoresis; Transport number, 209

Angiotensin III; Angiotensin II; Iontophoresis; Transport number, 209

Anodal and cathodal lesions; Noradrenergic cell groups; Localization; Rabbit, 11

Anterior hypothalamus; In vivo release; In vivo dialysis; Noradrenaline; Dopamine; Catecholamine, 173

Autocorrelation; Noise analysis; Neural spike processing; Fourier transform; Frog auditory system, 125

Autoradiography; [^{3}H]Uridine; RNA; Brain; Intraventricular administration; Systemic administration, 339

Awake rat; Electrophysiology; Epidural anesthesia; Glass electrode; Single unit recording, 105

Basiocciput; Transcervical; Surgical approach; Ventral medulla; Brainstem, 29

Behavior; Motion; Computer analysis; Videodata, 89

Binding assay; Centrifugation; Uptake assay; Receptors general; Membrane isolation; Neurochemistry, 317

Botulinum neurotoxin; Plantar nerve; Lumbrical muscle; Electrophysiology; Nomarsky optics; Electron microscopy, 285

Boxplot; Motor pattern; Descriptive statistics; Graphics, 47

Brain; Perfusion; Immersion; Fixation; Postmortem; Human; Immunohistochemistry, 183

Brain; [^{3}H]Uridine; RNA; Autoradiography; Intraventricular administration; Systemic administration, 339

Brainstem; Transcervical; Surgical approach; Basiocciput; Ventral medulla, 29

Cable; Electrotonus; Computer model; Neuronal modelling; Compartmental model; Numerical analysis; Time domain, 69

Catecholamine; In vivo release; In vivo dialysis; Noradrenaline; Dopamine; Anterior hypothalamus, 173

Cell impalement; Microelectrode; Micropositioner; Stepper motor, 235

Centrifugation; Binding assay; Uptake assay; Receptors general; Membrane isolation; Neurochemistry, 317

Chromaffin cells; Adrenal medulla; Norepinephrine; Epinephrine; Renografin; Percoll; Density gradient centrifugation, 163

Compartmental model; Electrotonus; Computer model; Neuronal modeling; Cable; Numerical analysis; Time domain, 69

Computer analysis; Motion; Videodata; Behavior, 89

Computer interface; Interval analysis; Real-time; Spike train, 147

Computer model; Electrotonus; Neuronal modeling; Compartmental model; Cable, Numerical analysis; Time domain, 69

Cytochrome oxidase; 2-Deoxyglucose; Metabolic enzyme staining, 1

Data acquisition; Interval histogram; Frequency histogram; Microcomputer; IBM PC; Spike train; Vestibular system, 61

Density gradient centrifugation; Adrenal medulla; Chromaffin cells; Norepinephrine; Epinephrine; Renografin; Percoll, 163

2-Deoxyglucose; Cytochrome oxidase; Metabolic enzyme staining, 1

Descriptive statistics; Motor pattern; Graphics; Boxplot, 47

Dissection; Wholemount; Immunocytochemistry; Serotonin; Embryonic, 297

Dopamine; In vivo release; In vivo dialysis; Noradrenaline; Catecholamine; Anterior hypothalamus, 173

Dorsal horn; Spinal cord slice; Lamina IV; Excitatory amino acid, 141

Dorsal spinocerebellar tract; Guinea pig; HRP, In vitro, 225

0165-0270/87/$03.50 © 1987 Elsevier Science Publishers B.V. (Biomedical Division)

Electric fish; Swivel; Fixation; Electrode; Magnet, 95
Electrical field; Implant; Nerve, 217
Electrode; Swivel; Fixation; Electric fish; Magnet, 95
Electron microscopy; Plantar nerve; Lumbrical muscle; Botulinum neurotoxin; Electrophysiology; Nomarsky optics, 285
Electrophysiology; Awake rat; Epidural anesthesia; Glass electrode; Single unit recording, 105
Electrophysiology; Plantar nerve; Lumbrical muscle; Botulinum neurotoxin; Nomarsky optics; Electron microscopy, 285
Electrotonus; Computer model; Neuronal modeling; Compartmental model; Cable; Numerical analysis; Time domain, 69
Embryonic; Wholemount; Immunocytochemistry; Serotonin; Dissection, 297
Epidural anesthesia; Awake rat; Electrophysiology; Glass electrode; Single unit recording, 105
Epinephrine; Adrenal medulla; Chromaffin cells; Norepinephrine; Renografin; Percoll; Density gradient centrifugation, 163
Excitatory amino acid; Spinal cord slice; Dorsal horn; Lamina IV, 141
Experimental variability; Unitary conduction velocity; Spike-triggered averaging; Recording configuration, 267
Eye-head movement; Search coil system; Miniature coil; Small laboratory animal, 115

Fixation; Swivel; Electrode; Electric fish; Magnet, 95
Fixation; Perfusion; Immersion; Postmortem; Human; Brain; Immunohistochemistry, 183
Fourier transform; Noise analysis; Neural spike processing; Autocorrelation; Frog auditory system, 125
Frequency histogram; Data acquisition; Interval histogram; Microcomputer; IBM PC; Spike train; Vestibular system, 61
Frog auditory system; Noise analysis; Neural spike processing; Autocorrelation; Fourier transform, 125

Glass electrode; Awake rat; Electrophysiology; Epidural anesthesia; Single unit recording, 105
Graphics; Motor pattern; Descriptive statistics, Boxplot, 47
Guinea pig; HRP; In vitro; Dorsal spinocerebellar tract, 225

High-voltage electron microscope; X-ray microprobe analysis; Neuroprosthetic microelectrode implant, 323
HRP; In vitro; Dorsal spinocerebellar tract; Guinea pig, 225
Human brain; Aminio acid; Neurotransmitter; Liquid chromatography, 305
Human, Perfusion; Immersion; Fixation; Postmortem; Brain; Immunohistochemistry, 183

IBM PC; Data acquisition; Interval histogram; Frequency histogram; Microcomputer; Spike train; Vestibular system, 61
Immersion; Perfusion; Fixation; Postmortem; Human; Brain; Immunohistochemistry, 183
Immunocytochemistry; Wholemount; Serotonin; Embryonic; Dissection, 297
Immunohistochemistry; Perfusion; Immersion; Fixation; Postmortem; Human; Brain, 183
Implant; Electrical field; Nerve, 217
Implanted electrode; Muscular dystrophy; Mouse; Nerve; Muscle, 37
In vitro, Dorsal spinocerebellar tract; Guinea pig; HRP, 225
In vivo dialysis; In vivo release; Noradrenaline; Dopamine, Catecholamine; Anterior hypothalamus, 173
In vivo release; In vivo dialysis; Noradrenaline; Dopamine; Catecholamine; Anterior hypothalamus, 173
Infusion; Roller pump; Roller bearing, 157
Input current; Silver-silver chloride electrode; Offset voltage, 249
Interval analysis; Computer interface; Real-time; Spike train, 147
Interval histogram; Data acquisition; Frequency histogram; Microcomputer; IBM PC; Spike train; Vestibular system, 61
Intraventricular administration; [^{3}H]Uridine; RNA; Brain; Autoradiography; Systemic administration, 339
Iontophoresis; Angiotensin II; Angiotensin III; Transport number, 209

Joint; Servomechanism; Position sense; Movement sense, 193

Lamina IV; Spinal cord slice; Dorsal horn; Excitatory amino acid, 141
Light emitting diode; Photometer; Pulse modulation, 203
Liquid chromatography; Amino acid; Neurotransmitter; Human brain, 305

Localization; Anodal and cathodal lesions; Noradrenergic cell groups; Rabbit, 11
Lumbrical muscle; Plantar nerve; Botulinum neurotoxin; Electrophysiology; Nomarsky optics; Electron microscopy, 285

Magnet; Swivel; Fixation; Electrode; Electric fish, 95
Membrane isolation; Centrifugation; Binding assay; Uptake assay; Receptors general; Neurochemistry, 317
Metabolic enzyme staining; Cytochrome oxidase; 2-Deoxyglucose, 1
Microcomputer; Data acquisition; Interval histogram; Frequency histogram; IBM PC; Spike train; Vestibular system, 61
Microelectrode; Cell impalement; Micropositioner; Stepper motor, 235
Micropipette holder; Temperature; Stability; Pressure ejection, 243
Micropositioner; Cell impalement; Microelectrode; Stepper motor, 235
Miniature coil; Search coil system; Eye-head movement; Small laboratory animal, 115
Motion; Computer analysis; Videodata; Behavior, 89
Motor pattern; Descriptive statistics; Graphics; Boxplot, 47
Motor unit; Twitch tension; Regeneration; Nerve, 259
Mouse; Muscular dystrophy; Nerve; Muscle; Implanted electrode, 37
Movement sense; Joint; Servomechanism; Position sense, 193
Muscle; Muscular dystrophy; Mouse; Nerve; Implanted electrode, 37
Muscular dystrophy; Mouse; Nerve; Muscle; Implanted electrode, 37

Nerve; Electrical field; Implant, 217
Nerve; Muscular dystrophy; Mouse; Muscle; Implanted electrode, 37
Nerve; Twitch tension; Regeneration; Motor unit, 259
Neural spike processing; Noise analysis; Autocorrelation; Fourier transform; Frog auditory system, 125
Neurochemistry; Centrifugation; Binding assay; Uptake assay; Receptors general; Membrane isolation, 317
Neuronal modeling; Electrotonus; Computer model; Compartmental model; Cable; Numerical analysis; Time domain, 69
Neuroprosthetic microelectrode implant; High-voltage electron microscope; X-ray microprobe analysis, 323
Neurotransmitter; Amino acid; Human brain; Liquid chromatography, 305
Noise analysis; Neural spike processing; Autocorrelation; Fourier transform; Frog auditory system, 125
Nomarsky optics; Plantar nerve; Lumbrical muscle; Botulinum neurotoxin; Electrophysiology; Electron microscopy, 285
Noradrenaline; In vivo release; In vivo dialysis; Dopamine; Catecholamine; Anterior hypothalamus, 173
Noradrenergic cell groups; Anodal and cathodal lesions; Localization; Rabbit, 11
Norepinephrine; Adrenal medulla; Chromaffin cells; Epinephrine; Renografin; Percoll; Density gradient centrifugation, 163
Numerical analysis; Electrotonus; Computer model; Neuronal modeling; Compartmental model; Cable; Time domain, 69

Offset voltage; Silver-silver chloride electrode; Input current, 249

Percoll; Adrenal medulla; Chromaffin cells; Norepinephrine; Epinephrine; Renografin; Density gradient centrifugation, 163
Perfusion; Immersion; Fixation; Postmortem; Human; Brain; Immunohistochemistry, 183
Photometer; Light emitting diode; Pulse modulation, 203
Plantar nerve; Lumbrical muscle; Botulinum neurotoxin; Electrophysiology; Nomarsky optics; Electron microscopy, 285
Position sense; Joint; Servomechanism; Movement sense, 193
Postmortem; Perfusion; Immersion; Fixation; Human; Brain; Immunohistochemistry, 183
Pressure ejection; Micropipette holder; Temperature; Stability, 243
Pulse modulation; Light emitting diode; Photometer, 203

RNA; [^{3}H]Uridine; Brain; Autoradiography; Intraventricular administration; Systemic administration, 339
Rabbit; Anodal and cathodal lessions; Noradrenergic cell groups; Localization, 11
Real-time; Computer interface; Interval analysis; Spike train, 147
Receptors general; Centrifugation; Binding as-

say; Uptake assay; Membrane isolation; Neurochemistry, 317
Recording configuration; Unitary conduction velocity; Spike-triggered averaging; Experimental variability, 267
Regeneration; Twitch tension; Motor unit; Nerve, 259
Renografin; Adrenal medulla; Chromaffin cells; Norepinephrine; Epinephrine; Percoll; Density gradient centrifugation, 163
Roller bearing; Roller pump; Infusion, 157
Roller pump; Roller bearing; Infusion, 157

Search coil system; Miniature coil; Eye-head movement; Small laboratory animal, 115
Serotonin; Wholemount; Immunocytochemistry; Embryonic; Dissection, 297
Servomechanism; Joint; Position sense; Movement sense, 193
Silver-silver chloride electrode; Input current; Offset voltage, 249
Single unit recording; Awake rat; electrophysiology; Epidural anesthesia; Glass electrode, 105
Small laboratory animal; Search coil system; Miniature coil; Eye-head movement, 115
Spike train; Data acquisition; Interval histogram; Frequency histogram; Microcomputer; IBM PC; Vestibular system, 61
Spike train; Computer interface; Interval analysis; Real-time, 147
Spike-triggered averaging; Unitary conduction velocity; Experimental variability; Recording configuration, 267
Spinal cord slice; Dorsal horn; Lamina IV; Excitatory amino acid, 141
Stability; Micropipette holder; Temperature; Pressure ejection, 243
Stepper motor, Cell impalement; Microelectrode, Micropositioner, 235
Surgical approach; Transcervical; Basiocciput; Ventral medulla; Brainstem, 29
Swivel; Fixation; Electrode; Electric fish; Magnet, 95
Systemic administration; [^{3}H]Uridine; RNA; Brain; Autoradiography; Intraventricular administration, 339

Temperature; Micropipette holder; Stability; Pressure ejection, 243
Time domain; Electrotonus; Computer model; Neuronal modeling; Compartmental model; Cable; Numerical analysis, 69
Transcervical; Surgical approach; Basiocciput; Ventral medulla; Brainstem, 29
Transport number; Angiotensin II; Angiotensin III; Iontophoresis, 209
Twitch tension; Regeneration; Motor unit; Nerve, 259

Unitary conduction velocity; Spike-triggered averaging; Experimental variability; Recording configuration, 267
Uptake assay; Centrifugation; Binding assay; Receptors general; Membrane isolation; Neurochemistry, 317

Ventral medulla; Transcervical; Surgical approach; Basiocciput; Brainstem, 29
Vestibular system; Data acquisition; Interval histogram; Frequency histogram; Microcomputer; IBM PC; Spike train, 61
Videodata; Motion; Computer analysis; Behavior, 89

Wholemount; Immunocytochemistry; Serotonin; Embryonic; Dissection, 297

X-ray microprobe analysis; High-voltage electron microscope; Neuroprosthetic microelectrode implant, 323

[^{3}H]Uridine; RNA; Brain; Autoradiography; Intraventricular administration; Systemic administration, 339